This directory contains some example codes for use in the TAU workshop.

NOTE 1: Before starting, please load the TAU module:
% module load tau

This will set up the modules and paths for this workshop.

In the examples, please replace the architecture - x86_64 with ibm64
if you are doing these exercises on bassi at NERSC. For Franklin, please use
craycnl as the architecture. On all systems $TAULIBDIR has been set to
the <taudir>/<arch>/lib directory.

We recommend reading the README file in each subdirectory and trying the
commands to generate and analyze the data.

1) matmult - a simple Fortran MPI program for matrix multiplication.
2) ring - a simple Fortran MPI program for sending a message in a ring.
2) cthreads - C with pthreads
3) papi - loop level instrumentation and use of hardware performance counters
4) sweep3d - a parallel Fortran MPI application.
5) NPB3.1 - shows instrumentation in C and Fortran applications using MPI.
6) perfexplorer - shows how perfexplorer can help carry out multi-experiment
performance analysis using the PerfDMF database.

For further information, please visit the TAU webpage:
http://tau.uoregon.edu

You may want to install TAU locally on your laptop. The TAU webpage has an Apple and a Windows package for download as well. See Downloads section.

NOTE 3:
These examples assume tcsh/csh as your shell. If you are using bash, please use:

% export TAU_MAKEFILE=<value>
% export PATH=$PATH:<dir>

instead of

% setenv TAU_MAKEFILE <value>
% set path=($path <dir>)

- Sameer Shende (<sameer@cs.uoregon.edu>)